

# KOREAN PATENT ABSTRACT (KR)

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## REINFORCING TOOL FOR PILING RED BRICKS

### Abstract

The present invention relates to a reinforcing tool for piling red bricks in order to decorate the entire surface of a concrete wall of a building so that red bricks can be placed straight in a perpendicular direction and piled red bricks can be prevented from crumbling due to an external force such as vibrations or strong winds.

A conventional reinforcing tool for building red bricks is fixed between a concrete wall and a bed joint of mortar; however, the conventional reinforcing tool has a complex structure, and thus, the fabrication costs thereof are high and a high reinforcing force cannot be obtained.

According to the present invention, a reinforcing plate 1 is bent to have an L-shape and elongated holes 101 and 102 are formed in the reinforcing plate 1, and elastic plates 2 and 2' are spot-welded around the elongated hole 101 so that a steel wire 3 can be inserted into the elastic plates 2 and 2' to support and reinforce red bricks 4. Therefore, the fabrication costs of the reinforcing tool can be greatly reduced, and a supporting force and a reinforcing force of the reinforcing tool can be improved.

### Technical gist of the invention

The present invention provides a reinforcing tool for building red bricks, wherein the reinforcing tool is fabricated by bending a reinforcing plate 1 to have an L-shape, perforating elongated holes 101 and 102, and spot-welding elastic plates 2 and 2' around the elongated hole 101 so that the steel wire 3 can be inserted into the elastic plates 2 and 2' to support the red bricks 4, and thus, fabrication costs of the reinforcing tool can be greatly reduced and the supporting force and the reinforcing force can be improved.

## Structure and operation of the invention

FIG. 1 is a perspective view showing the reinforcing tool of the present invention. Referring to FIG. 1, the reinforcing plate 1 formed of a galvanized steel is bent in an L-shape, and the elongated holes 101 and 102 are formed in the reinforcing plate 1. In addition, the elastic plates 2 and 2' are spot-welded around the elongated hole 101, and then, the steel wire 3 is inserted into the elastic plates 2 and 2' and fixed.

Reference numeral 4 denotes red bricks, reference numeral 5 denotes a concrete wall, reference numeral 6 denotes mortar, and reference numeral 7 denotes a bolt.

The reinforcing tool having the above structure maintains the red bricks 4 straight in a perpendicular direction and also prevents the red bricks 4 from crumbling due to vibrations, shocks, or strong winds by fixing a pair of reinforcing plates 1 on left and right sides of the concrete wall 5 of the building using bolts 7 and inserting the steel wire 3 into the elastic plates 2 and 2' to fix the steel wire on a bed joint of mortar 6 between the red bricks 4. Since the reinforcing plate 1 is bent in an L-shape and fixed on the concrete wall 5 and the mortar 6 and the mortar 6 is filled in the elongated hole 101, and thus, a firm supporting status can be maintained. In addition, since the elastic plates 2 and 2' having high elasticity are spot-welded so that the steel wire 3 can be rapidly and easily inserted into the elastic plates 2 and 2', an assembling property of the reinforcing tool can be improved and the fabrication costs of the reinforcing tool can be reduced because the structure of the reinforcing tool is simple.

## Claim

1. A reinforcing tool for building red bricks, the reinforcing tool comprising:  
a reinforcing plate formed of a galvanized steel that is bent in an L-shape, in which elongated holes 101 and 102 are formed and elastic plates are spot-welded around the elongated hole so that a steel wire can be inserted and fixed into the elastic plates;